Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	356	706/16.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/29 14:15
L2	0	706/16.ccls. and (conductor adj connector)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/29 14:16
L3	2	706/16.ccls. and conductor and connector	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/29 14:17
L4	4226	connection and (conductor adj connector)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/29 14:17
L5	933	connection with (conductor adj connector)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/29 14:18
L6	2	(connection with (conductor adj connector)) and (neural adj networks)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/29 14:18
L7	25	(connection and (conductor adj connector)) and (neural adj networks)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/29 15:41

L8	95	("5365658" "5366388" "5644670" "5658166" "4285561" "4916810"	US-PGPUB; USPAT;	OR	ON	2006/03/29 14:31
	-	"4969924" "5197186" "5228586" "5475782" "5571145" "5919059" "5937505" "6161407" "6212924" "6212924" "5398187" "5267232"	EPO; JPO; DERWENT; IBM_TDB		-	
		"5373456" "5430709" "5450445" "5710974" "5815492" "6011776" "4608872" "4613960" "5001560" "5187685" "5289462" "5333240" "5406498" "5426640" "5461699" "5471433" "5488618" "5546332" "5555264" "5623555" "5633863" "5649010" "5751734" "5761250" "5832069" "5847967" "5859709" "5924066" "5926538" "5933457"				
		"5936940" "5949758").pn.		·		
L10	2	"4952155".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/29 15:31
L11	2	"6004171".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/29 15:32
L12	2	"6880240".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/29 15:35
L13	4	"6813826".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/29 15:36
L14	2	"20040221634".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/29 15:37
L16	13	conductor and connector and crimping and (neural adj networks)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/29 15:44

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L17	279	29/745.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/29 15:50
L18	20	29/745.ccls. and crimping	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/29 15:48
L19	618	29/747.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/29 15:50
L20	82	29/747.ccls. and crimping	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/29 15:51
L21	0	29/747.ccls. and crimping and (crimp adj width)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/29 15:51
L22	7	crimping and (crimp adj height) and (crimp adj width)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/29 16:00
L23		crimping and (crimp adj height) and (crimp adj width) and compression and (adhesion adj force)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON .	2006/03/29 15:54
L24	2	(estimation adj unit) and (connection adj data) and (neural adj networks)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/29 15:56
L25	21	(estimation adj unit) and (connection adj data)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/29 15:56
L26	2	crimp\$4 and estimat\$4 and (crimp adj height) and (crimp adj width)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/29 16:01

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L27	994	(nobuhiro kakuhari.in.) and (naoki ito.in.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/29 16:02
L28	5	(nobuhiro kakuhari.in.) and (naoki ito.in.) and crimp\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/29 16:03
L29	2	"5669257".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR .	ON	2006/03/29 16:04
L30	2	"5887469".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/29 16:04
L31	2	"5966806".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/29 16:05
L32		"6418769".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/29 16:06
L33	2	"6067828".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/29 16:07
L34		"5937505".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/29 16:07
L35	2	"5727409".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/29 16:08
L36	2	"5101651".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/29 16:13

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L38	2	"6212924".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/29 17:04
L39	93	72/21.4.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ÖR	ON	2006/03/29 16:13
L40	10	72/21.4.ccls. and crimping	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/29 16:13
L41	2	"5638288".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/29 18:17
L42	1	(multilayer adj feedforward adj neural adj networks) and (estimation adj unit)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/29 18:18
L43	70	(neural adj networks) and (estimation adj unit)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR ·	ON	2006/03/29 18:20
L44	1	(neural adj networks) and (estimation adj unit) and crimping	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/29 18:18
L45	1	(neural adj networks) with (estimation adj unit) and crimping	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR ·	ON	2006/03/29 18:18
L46	24	(neural adj networks) with (estimation adj unit)	US-PGPUB; USPAT; EPO; JPO; DÉRWENT; IBM_TDB	OR	ON	2006/03/29 19:14
L47	3	(expert adj system) and (estimation adj unit)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/29 19:00

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L48	10	(expert adj system) and crimping	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/29 19:00
L49	4	(neural adj nets) and crimping	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/29 19:19
L50	2269	crimp\$4 adj connection	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/29 19:19
L51	57	(crimp\$4 adj connection) and (crimp adj height)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/29 19:20
L52	4	(crimp\$4 adj connection) and (crimp adj height) and (crimp adj width)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR .	ON	2006/03/29 19:24
L53	7	(crimp\$4 adj connection) and compressibility	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/29 19:24
L54	1	(crimp\$4 adj connection) and (compressibility adj conductor)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/29 19:25
L55	2	(crimp\$4 adj connection) and (adhesion adj force)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/29 19:25
L56	106	crimp\$4 and (adhesion adj force)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OŘ	ON	2006/03/29 19:26
L57	. 1	crimp\$4 and (adhesion adj force) and (contact adj resistance)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/29 19:26



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Neural networks and dynamic complex systems

Geoffrey Fox, Wojtek Furmanski, Alex Ho, Jeff Koller, Peter Simic, Isaac Wong March 1989 Proceedings of the 22nd annual symposium on Simulation ANSS '89

Publisher: IEEE Computer Society Press

Full text available: pdf(1.44 MB)

Additional Information: full citation, abstract, references, index terms

We describe the use of neural networks for optimization and inference associated with a variety of complex systems. We show how a string formalism can be used for parallel computer decomposition, message routing and sequential optimizing compilers. We extend these ideas to a general treatment of spatial assessment and distributed artificial intelligence.

2 An intelligent agent approach for teaching neural networks using LEGO® handy



board robots

Susan P. Imberman

September 2004 Journal on Educational Resources in Computing (JERIC), Volume 4 Issue

Publisher: ACM Press

Full text available: pdf(898.91 KB) Additional Information: full citation, abstract, references, index terms

In this article we describe a project for an undergraduate artificial intelligence class. The project teaches neural networks using LEGO® handy board robots. Students construct robots with two motors and two photosensors. Photosensors provide readings that act as inputs for the neural network. Output values power the motors and maintain the robot along the designated path. In doing this project, students come to realize the difference between training a neural network and the trained neural ...

Keywords: artificial intelligence, back propagation, handy board, neural networks, robotics

Modeling II: 3D object reconstruction and representation using neural networks

Lim Wen Peng, Siti Mariyam Shamsuddin

June 2004 Proceedings of the 2nd international conference on Computer graphics and interactive techniques in Australasia and South East Asia GRAPHITE '04

Publisher: ACM Press

Full text available: 🔂 pdf(468.49 KB) Additional Information: full citation, abstract, references

3D object reconstruction is frequent used in various fields such as product design, engineering, medical and artistic applications. Numerous reconstruction techniques and software were introduced and developed. However, the purpose of this paper is to fully integrate an adaptive artificial neural network (ANN) based method in reconstructing and representing 3D objects. This study explores the ability of neural networks in learning through experience when reconstructing an object by estimating it ...

Keywords: affined transformation, back propagation, multilayer feed-forward neural networks, object space, reconstruction, representation, third order polynomial

4 Neural networks and artificial intelligence

N. E. Sondak, V. K. Sondak

February 1989 ACM SIGCSE Bulletin, Proceedings of the twentieth SIGCSE technical symposium on Computer science education SIGCSE '89, Volume 21 Issue 1

Publisher: ACM Press

Full text available: pdf(483.88 KB) Additional Information: full citation, abstract, references, citings, index terms

Neural networks have been called "more important than the atomic bomb" and have received a major funding commitment from DARPA. Nevertheless, it is difficult to find even a mention of neural network concepts and applications in many computer science or information systems curricula. In fact, few computer science or information systems faculty are aware of the profound implications of neurocomputing on the future of their field. This paper contends that neural networks must be a ...

5 Time series forecasting using neural networks

Thomas Kolarik, Gottfried Rudorfer

August 1994 ACM SIGAPL APL Quote Quad, Proceedings of the international conference on APL: the language and its applications: the language and its applications APL '94, Volume 25 Issue 1

Publisher: ACM Press

Full text available: pdf(657.67 KB)

Additional Information: full citation, abstract, references, citings, index terms

Artificial neural networks are suitable for many tasks in pattern recognition and machine learning. In this paper we present an APL system for forecasting univariate time series with artificial neural networks. Unlike conventional techniques for time series analysis, an artificial neural network needs little information about the time series data and can be applied to a broad range of problems. However, the problem of network "tuning" remains: parameters of the backpropagation a ...

6 Residual speech signal compression: an experiment in the practical application of



Lorien Pratt, Kathleen D. Cebulka, Peter Clitherow

June 1990 Proceedings of the 3rd international conference on Industrial and engineering applications of artificial intelligence and expert systems - Volume 2 IEA/AIE '90

Publisher: ACM Press

Full text available: pdf(1.33 MB) Additional Information: full citation, abstract, references, index terms

Neural networks are a popular area of research today. However, neural network algorithms have only recently proven valuable to application problems. This paper seeks to aid in the process of transferring neural network technology from research to a development environment by describing our experience in applying this technology. The application studied here is Speaker Identity Verification (SIV), which is the task of verifying a speaker's identity by comparing the speaker's voice ...

7 Real time application of artificial neural network for incipient fault detection of



induction machines

Mo-yuen Chow, Sui Oi Yee

June 1990 Proceedings of the 3rd international conference on Industrial and engineering applications of artificial intelligence and expert systems - Volume 2 IEA/AIE '90

Publisher: ACM Press

Full text available: pdf(751.83 KB) Additional Information: full citation, abstract, references, index terms

This paper describes several artificial neural network architectures for real time application in incipient fault detection of induction machines. The artificial neural networks perform the fault detection in real time, based on direct measurements from the motor, and no rigorous mathematical model of the motor is needed. Different approaches used to develop a reliable fault detector are presented and compared in this paper. The designed networks vary in complexity and accuracy. A high-orde ...

8 Continuous learning: a design methodology for fault-tolerant neural networks



Vincenzo Piuri

June 1990 Proceedings of the 3rd international conference on Industrial and engineering applications of artificial intelligence and expert systems - Volume 2 IEA/AIE '90

Publisher: ACM Press

Full text available: pdf(1.36 MB)

Additional Information: full citation, abstract, references, index terms

Fault tolerance in artificial neural networks is an important feature, in particular when the application is critical or when maintenance is difficult. This paper presents a general design methodology for designing fault-tolerant architectures, starting from the behavioral description of the nominal network and from the nominal algorithm. The behavioral level is considered to detect errors due to hardware faults, while system survival is quaranteed by the reactivation of learning mechanisms ...

9 Mining sales data using a neural network model of market response

Thomas S. Gruca, Bruce R. Klemz, E. Ann Furr Petersen



June 1999 ACM SIGKDD Explorations Newsletter, Volume 1 Issue 1

Publisher: ACM Press

Full text available: 🔁 pdf(549.98 KB) Additional Information: full citation, abstract, references

Modeling aggregate market response is a core issue in marketing research. In this research, we extend previous forecasting comparative research by comparing the forecasting accuracy of feed-forward neural network models to the premier market modeling technique, Multiplicative Competitive Interaction (MCI) models. Forecasts are compared in two separate studies: (1) the Information Resources Inc. (IRI) coffee dataset from Marion, IN and (2) the A. C. Nielsen catsup dataset from Sioux Falls, SD. Ou ...

Keywords: market response model, neural networks, sales/market share forecasting

10 Poster papers: Extracting decision trees from trained neural networks



Olcay Boz

July 2002 Proceedings of the eighth ACM SIGKDD international conference on Knowledge discovery and data mining

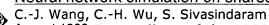
Publisher: ACM Press

Full text available: pdf(683.99 KB) Additional Information: full citation, abstract, references, index terms

Neural Networks are successful in acquiring hidden knowledge in datasets. Their biggest weakness is that the knowledge they acquire is represented in a form not understandable

to humans. Researchers tried to address this problem by extracting rules from trained Neural Networks. Most of the proposed rule extraction methods required specialized type of Neural Networks; some required binary inputs and some were computationally expensive. Craven proposed extracting MofN type Decision Trees from Neur ...

11 Neural network simulation on shared-memory vector multiprocessors



August 1989 Proceedings of the 1989 ACM/IEEE conference on Supercomputing Publisher: ACM Press

Full text available: pdf(620.97 KB) Additional Information: full citation, abstract, references, index terms

We simulate three neural networks on a vector multiprocrssor. The training time can be reduced significantly especially when the training data size is large. These three neural networks are: 1) the feedforward network, 2) the recurrent network and 3) the Hopfield network. The training algorithms are programmed in such a way to best utilize 1) the inherent parallelism in neural computing, and 2) the vector and concurrent operations available on the parallel machine. To prove the correctness ...

12 <u>Software for neural networks</u>

James A. Anderson, Edward J. Wisniewski, Susan R. Viscuso

March 1988 ACM SIGARCH Computer Architecture News, Volume 16 Issue 1

Publisher: ACM Press

Full text available: pdf(1.08 MB)

Additional Information: full citation, abstract, index terms

Neural networks "compute" though not in the way that traditional computers do. It is necessary to accept their weaknesses to use their strengths. We discuss some of the assumptions and constraints that govern operation of neural nets, describe one particular non-linear network---the BSB model---in a little detail, and present two applications of neural network computations to illustrate some of the peculiarities inherent in this architecture. We show how a network can be trained to estimate answ ...

13 A multi-neural-network learning for lot sizing and sequencing on a flow-shop

In Lee, Jatinder N. D. Gupta, Amar D. Amar

March 2001 Proceedings of the 2001 ACM symposium on Applied computing

Publisher: ACM Press

Full text available: pdf(52.28 KB) Additional Information: full citation, references, index terms

Keywords: flow-shop, lot sizing, neural networks, sequencing

14 An intelligent neural network programming system (NNPS)

Tao Li, XiaoJie Liu

March 2000 ACM SIGPLAN Notices, Volume 35 Issue 3

Publisher: ACM Press

Full text available: pdf(967.78 KB) Additional Information: full citation, abstract, citings, index terms

A neural network programming system based on parallel neural information processing has been presented. With the neural network programming system built upon a 100M local computer network, the system has thus provided users high speed, general purpose and large scale neural network application development platforms.

Keywords: neural networks, programming language, programming system

15 The development of a methodology for the use of neural networks and simulation

modeling in system design

Mahdi Nasereddin, Mansooreh Mollaghasemi

December 1999 Proceedings of the 31st conference on Winter simulation: Simulation---a bridge to the future - Volume 1

Publisher: ACM Press

Full text available: pdf(63.14 KB) Additional Information: full citation, references, index terms

16 A QoS-Provisioning neural fuzzy connection admission controller for multimedia high-



speed networks

Ray-Guang Cheng, Chung-Ju Chang, Li-Fong Lin

February 1999 IEEE/ACM Transactions on Networking (TON), Volume 7 Issue 1

Publisher: IEEE Press

Full text available: The pdf(342.90 KB) Additional Information: full citation, references, citings, index terms

NeuroAnimator: fast neural network emulation and control of physics-based models



Radek Grzeszczuk, Demetri Terzopoulos, Geoffrey Hinton

July 1998 Proceedings of the 25th annual conference on Computer graphics and interactive techniques

Publisher: ACM Press

Full text available: pdf(28.26 MB) Additional Information: full citation, references, citings, index terms

Keywords: backpropagation, dynamical systems, learning, motion control, neural networks, physics-based animation, simulation

18 Constructing deterministic finite-state automata in recurrent neural networks





Christian W. Omlin, C. Lee Giles

November 1996 Journal of the ACM (JACM), Volume 43 Issue 6

Publisher: ACM Press

Full text available: pdf(646.04 KB)

Additional Information: full citation, abstract, references, citings, index terms

Recurrent neural networks that are trained to behave like deterministic finite-state automata (DFAs) can show deteriorating performance when tested on long strings. This deteriorating performance can be attributed to the instability of the internal representation of the learned DFA states. The use of a sigmoidel discriminant function together with the recurrent structure contribute to this instability. We prove that a simple algorithm can construct second-o ...

Keywords: automata, connectionism, knowledge encoding, neural networks, nonlinear dynamics, recurrent neural networks, rules, stability

¹⁹ On the optimal capacity of binary neural networks: rigorous combinatorial approaches i



Jeong Han Kim, James R. Roche

July 1995 Proceedings of the eighth annual conference on Computational learning theory

Publisher: ACM Press

Full text available: 🔁 pdf(805.24 KB) Additional Information: full citation, references, index terms

A cascading neural-net for traffic management of computer networks



Jiann-Liang Chen

March 1993 Proceedings of the 1993 ACM conference on Computer science

Publisher: ACM Press

Full text available: pdf(707.41 KB) Additional Information: full citation, abstract, references, index terms

An effective method to execute the traffic management of computer networks using a cascading neural-net (CNN) is proposed in this paper. The proposed CNN consists of a two-level neural model. The lower level, the back-propagation neural model, will detect whether the tested network is overloaded or not. The higher level, the counterpropagation neural model, will classify and exclude the status of congestion derived from the overload of tested network. Therefore, if the diagnostic e ...

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S Schulenburg, P Ross - LECTURE NOTES IN COMPUTER SCIENCE, 2002 - Springer ... Specially, during the early nineties, when the use of **neural networks** appeared to be an area of great potential in securities forecast- ing, dozens of papers ... Cited by 8 - Web Search - BL <u>Direct</u>

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GR Prin, T Courtin, L Boyer - ieeexplore.ieee.org

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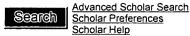
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